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Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala
1 5 10 15

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Glu Pro His Ile Ser Tyr Pro Pro Leu His Glu Arg Ala Leu Arg
1 5 10 15

<210> 1921
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Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu
1 5 10 15

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Glu Val Thr Leu Gly Glu Val Pro Ala Ala Asp Ser Pro Ser Pro
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Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu
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Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu Val
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Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu
1 5 10 15

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<400> 1926

Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu Tyr Ile
1 5 10 15

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Gly	Leu	Leu	Ile	Ile	Val	Leu	Ala	Ile	Ile	Ala	Ile	Glu	Gly	Asp
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His	Phe	Leu	Leu	Leu	Lys	Tyr	Arg	Ala	Arg	Glu	Pro	Val	Thr	Lys
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His	Leu	Tyr	Ile	Leu	Val	Thr	Cys	Leu	Gly	Leu	Ser	Tyr	Asp	Gly
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<400> 1930

Ile	Glu	Val	Val	Glu	Val	Val	Pro	Ile	Ser	His	Leu	Tyr	Ile	Leu
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<210> 1931

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Ile	Ile	Ala	Ile	Glu	Gly	Asp	Cys	Ala	Pro	Glu	Glu	Lys	Ile	Trp
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<400> 1932
Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala Pro
1 5 10 15

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<400> 1933
Ile Ser His Leu Tyr Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr
1 5 10 15

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<400> 1934
Lys Ala Glu Met Leu Glu Ser Val Leu Arg Asn Cys Gln Asp Phe
1 5 10 15

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<400> 1935
Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu
1 5 10 15

<210> 1936
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<400> 1936
Leu Gly Glu Val Pro Ala Ala Asp Ser Pro Ser Pro Pro His Ser
1 5 10 15

<210> 1937
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<400> 1937
Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu Glu Gln Gln
1 5 10 15

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<400> 1938
Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys Ala
1 5 10 15

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<400> 1939
Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly Asp Cys
1 5 10 15

<210> 1940
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<400> 1940
Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met
1 5 10 15

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<400> 1941
Leu Gln Leu Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile

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<400> 1942
Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala Asp Ser Pro
1 5 10 15

<210> 1943
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<400> 1943
Met Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg
1 5 10 15

<210> 1944
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<400> 1944
Asn Gln Val Met Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Ala
1 5 10 15

<210> 1945
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<400> 1945
Pro Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu
1 5 10 15

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<400> 1946

Pro	Arg	Met	Phe	Pro	Asp	Leu	Glu	Ser	Glu	Phe	Gln	Ala	Ala	Ile
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<400> 1947

Gln	Ala	Ala	Ile	Ser	Arg	Lys	Met	Val	Glu	Leu	Val	His	Phe	Leu
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<210> 1948

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<400> 1948

Gln	Asp	Phe	Phe	Pro	Val	Ile	Phe	Ser	Lys	Ala	Ser	Glu	Tyr	Leu
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<400> 1949

Gln	Asp	Leu	Val	Gln	Glu	Asn	Tyr	Leu	Glu	Tyr	Arg	Gln	Val	Pro
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<210> 1950

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<400> 1950

Gln	Leu	Val	Phe	Gly	Ile	Glu	Val	Val	Glu	Val	Val	Pro	Ile	Ser
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<400> 1951

Arg	Ala	Leu	Ile	Glu	Thr	Ser	Tyr	Val	Lys	Val	Leu	His	His	Thr
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<400> 1952

Arg	Glu	Pro	Val	Thr	Lys	Ala	Glu	Met	Leu	Glu	Ser	Val	Leu	Arg
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<210> 1953

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<400> 1953

Arg	Lys	Leu	Leu	Met	Gln	Asp	Leu	Val	Gln	Glu	Asn	Tyr	Leu	Glu
1				5					10					15

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<400> 1954

Ser	His	Leu	Tyr	Ile	Leu	Val	Thr	Cys	Leu	Gly	Leu	Ser	Tyr	Asp
1				5					10					15

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<400> 1955

Ser	Ser	Thr	Leu	Val	Glu	Val	Thr	Leu	Gly	Glu	Val	Pro	Ala	Ala
1				5					10					15

<210> 1956

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<400> 1956
Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu Gly
1 5 10 15

<210> 1957
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<400> 1957
Val Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu
1 5 10 15

<210> 1958
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<400> 1958
Val Glu Val Val Pro Ile Ser His Leu Tyr Ile Leu Val Thr Cys
1 5 10 15

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<400> 1959
Val Phe Gly Ile Glu Val Val Glu Val Val Pro Ile Ser His Leu
1 5 10 15

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<400> 1960
Val Val Pro Ile Ser His Leu Tyr Ile Leu Val Thr Cys Leu Gly
1 5 10 15

<210> 1961
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<400> 1961
Trp Glu Glu Leu Ser Met Leu Glu Val Phe Glu Gly Arg Glu Asp
1 5 10 15

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<400> 1962
Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Ile Glu Thr Ser Tyr
1 5 10 15

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<400> 1963
Tyr Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu
1 5 10 15

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<400> 1964
Tyr Pro Pro Leu His Glu Arg Ala Leu Arg Glu Gly Glu Glu
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<400> 1965
Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu

1 5 10 15

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<400> 1966
Tyr Val Lys Val Leu His His Thr Leu Lys Ile Gly Gly Glu Pro
1 5 10 15

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<400> 1967
Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu
1 5 10 15

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<400> 1968
Ala Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly
1 5 10 15

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<400> 1969
Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu Glu Gln
1 5 10 15

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Cys	Leu	Gly	Leu	Ser	Tyr	Asp	Gly	Leu	Leu	Gly	Asp	Asn	Gln	Ile
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<400> 1971

Asp	Gly	Leu	Leu	Gly	Asp	Asn	Gln	Ile	Met	Pro	Lys	Ala	Gly	Leu
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<210> 1972

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<400> 1972

Glu	Glu	Lys	Ile	Trp	Glu	Glu	Leu	Ser	Val	Leu	Glu	Val	Phe	Glu
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<210> 1973

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<400> 1973

Glu	Phe	Leu	Trp	Gly	Pro	Arg	Ala	Leu	Val	Glu	Thr	Ser	Tyr	Val
1				5					10					15

<210> 1974

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<400> 1974

Glu	Lys	Ile	Trp	Glu	Glu	Leu	Ser	Val	Leu	Glu	Val	Phe	Glu	Gly
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<210> 1975

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<400> 1975

Glu	Asn	Tyr	Leu	Glu	Tyr	Arg	Gln	Val	Pro	Gly	Ser	Asp	Pro	Ala
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<210> 1976

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<400> 1976

Glu	Ser	Glu	Phe	Gln	Ala	Ala	Leu	Ser	Arg	Lys	Val	Ala	Glu	Leu
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<400> 1977

Glu	Val	Thr	Leu	Gly	Glu	Val	Pro	Ala	Ala	Glu	Ser	Pro	Asp	Pro
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<210> 1978

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Phe	Phe	Pro	Val	Ile	Phe	Ser	Lys	Ala	Ser	Ser	Ser	Leu	Gln	Leu
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<400> 1979

Phe	Pro	Val	Ile	Phe	Ser	Lys	Ala	Ser	Ser	Ser	Leu	Gln	Leu	Val
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Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu
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<400> 1981
Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp
1 5 10 15

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<400> 1982
Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile
1 5 10 15

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<400> 1983
Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp
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<400> 1984
Gly Pro His Ile Ser Tyr Pro Pro Leu His Glu Trp Val Leu Arg
1 5 10 15

<210> 1985
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<400> 1985
His Phe Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys
1 5 10 15

<210> 1986
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<400> 1986
His Leu Tyr Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp Gly
1 5 10 15

<210> 1987
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<400> 1987
Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr Ile Phe
1 5 10 15

<210> 1988
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<400> 1988
Ile Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr
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<400> 1989
Lys Ala Glu Met Leu Gly Ser Val Val Gly Asn Trp Gln Tyr Phe

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 Lys Ala Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu
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<210> 1991
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 <400> 1991
 Lys Lys Leu Leu Thr Gln His Phe Val Gln Glu Asn Tyr Leu Glu
 1 5 10 15

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 <400> 1992
 Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser
 1 5 10 15

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 <400> 1993
 Leu Gly Leu Val Gly Ala Gln Ala Pro Ala Thr Glu Glu Gln Glu
 1 5 10 15

<210> 1994
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<400> 1994

Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys Ala
1 5 10 15

<210> 1995

<211> 15

<212> PRT

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<400> 1995

Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Arg Glu Gly Asp Cys
1 5 10 15

<210> 1996

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<400> 1996

Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met
1 5 10 15

<210> 1997

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<400> 1997

Leu Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile
1 5 10 15

<210> 1998

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1998

Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro
1 5 10 15

<210> 1999

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<212> PRT

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<400> 1999

Asn	Gln	Ile	Met	Pro	Lys	Ala	Gly	Leu	Leu	Ile	Ile	Val	Leu	Ala
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<400> 2000

Asn	Trp	Gln	Tyr	Phe	Phe	Pro	Val	Ile	Phe	Ser	Lys	Ala	Ser	Ser
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<210> 2001

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<400> 2001

Pro	Ser	Thr	Phe	Pro	Asp	Leu	Glu	Ser	Glu	Phe	Gln	Ala	Ala	Leu
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Pro	Val	Ile	Phe	Ser	Lys	Ala	Ser	Ser	Ser	Leu	Gln	Leu	Val	Phe
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<210> 2003

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<400> 2003

Gln	Ala	Ala	Leu	Ser	Arg	Lys	Val	Ala	Glu	Leu	Val	His	Phe	Leu
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<210> 2004

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<400> 2004
Gln His Phe Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro
1 5 10 15

<210> 2005
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<400> 2005
Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly
1 5 10 15

<210> 2006
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<400> 2006
Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu
1 5 10 15

<210> 2007
<211> 15
<212> PRT
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<220>
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<400> 2007
Arg Ala Leu Val Glu Thr Ser Tyr Val Lys Val Leu His His Met
1 5 10 15

<210> 2008
<211> 15
<212> PRT
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<220>
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<400> 2008
Arg Glu Pro Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly
1 5 10 15

<210> 2009
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<220>
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<400> 2009
Ser Ser Thr Leu Val Glu Val Thr Leu Gly Glu Val Pro Ala Ala
1 5 10 15

<210> 2010
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<220>
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<400> 2010
Val Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg
1 5 10 15

<210> 2011
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<220>
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<400> 2011
Val Asp Pro Ile Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly
1 5 10 15

<210> 2012
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<220>
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<400> 2012
Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu
1 5 10 15

<210> 2013
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<400> 2013
Val Gly Asn Trp Gln Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala

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<210> 2014
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<400> 2014
Trp Glu Glu Leu Ser Val Leu Glu Val Phe Glu Gly Arg Glu Asp
1 5 10 15

<210> 2015
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<400> 2015
Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr
1 5 10 15

<210> 2016
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<400> 2016
Tyr Pro Pro Leu His Glu Trp Val Leu Arg Glu Gly Glu Glu
1 5 10

<210> 2017
<211> 15
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<213> Artificial Sequence

<220>
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<400> 2017
Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu
1 5 10 15

<210> 2018
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<400> 2018

Tyr Val Lys Val Leu His His Met Val Lys Ile Ser Gly Gly Pro
1 5 10 15

<210> 2019

<211> 15

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Leu Tyr Ile Leu Val Thr Cys Leu Gly

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Phe Pro Val Ile Phe Ser Lys Ala Ser

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Leu Trp Gly Pro Arg Ala Leu Val Glu
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Leu Leu Gly Asp Asn Gln Ile Met Pro
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Met Pro Leu Glu Gln Arg Ser Gln His
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Phe Leu Pro Ser Asp Tyr Phe Pro Ser Val

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Lys Val Phe Pro Tyr Ala Leu Ile Asn Lys
1 5 10

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Ala Tyr Ile Asp Asn Tyr Asn Lys Phe
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Phe Pro Phe Lys Tyr Ala Ala Ala Phe
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Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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Glu Ala Leu Ile His Gln Leu Lys Ile Asn Pro Tyr Val Leu Ser
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Gln Tyr Ile Lys Ala Asn Ala Lys Phe Ile Gly Ile Thr Glu

1 5 10

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Gly Arg Thr Gln Asp Glu Asn Pro Val Val His Phe Phe Lys Asn Ile
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Val Thr Pro Arg Thr Pro Pro Pro
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Asn Gly Gln Ile Gly Asn Asp Pro Asn Arg Asp Ile Leu
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Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr
1 5 10

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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
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Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe
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Asn Val Val Asn Ser
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<210> 2212

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Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala
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tyrosine

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Lys Val Ala Glu Leu Val His Phe Leu
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Lys Leu Ala Glu Leu Val His Phe Leu
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Lys Met Ala Glu Leu Val His Phe Leu
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Lys Leu Ala Glu Leu Val His Phe Val
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Lys Met Ala Glu Leu Val His Phe Val
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Lys Ile Trp Glu Glu Leu Ser Val Leu
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Lys Leu Trp Glu Glu Leu Ser Val Val
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Ala Thr Cys Leu Gly Leu Ser Tyr
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Val Val Glu Val Val Pro Ile Ser His Leu Tyr
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Thr Met Asn Tyr Pro Leu Trp Ser Gln Ser Tyr
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Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr
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Val Thr Asp Leu Gly Leu Ser Tyr
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Ser Thr Phe Ser Thr Thr Ile Asn Tyr
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Ser Thr Leu Pro Thr Thr Met Asn Tyr

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Ala Ser Asp Phe Ser Thr Thr Ile Asn Tyr
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Leu Thr Gln Asp Leu Val Gln Glu Asn Tyr
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Ala Thr Ser Leu Pro Thr Thr Met Asn Tyr
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Ala Ser Asp Leu Pro Thr Thr Met Asn Tyr
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Leu Thr Asp His Phe Val Gln Glu Asn Tyr
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<400> 2238

Ser Val Phe Ser Thr Thr Ile Asn Lys
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Ser Val Phe Ser Thr Thr Ile Asn Arg
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Thr Val Ile Asn Tyr Thr Leu Trp Lys
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Leu Val His Phe Leu Leu Leu Lys Arg
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Gln Tyr Phe Phe Pro Val Ile Phe
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Ser Tyr Pro Pro Leu His Glu Trp

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Gly His Leu Tyr Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp

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Glu Ser Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu
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Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile Ile Ala Ile Glu
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Gly Pro Arg Met Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala
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Arg Lys Leu Leu Met Gln Asp Leu Val Gln Glu Asn Tyr Leu Glu
1 5 10 15

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Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile
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Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Ala Gly
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